

JP 67025408 : Purification of Japanese Encephalitis vaccine
, Okuj , 1967

Process for purifying Japanese encephalitis virus vaccine by combining filtration with a membrane filter and ultracentrifuging the vaccine, either continuously or separately.

The virus is obtained from infected mouse brains, and (a) to a supernatant from a centrifuged emulsion of the mouse brain protamine sulphate is added, (b) ppt. formed is removed by low speed centrifuging, (c) the supernatant is treated with active carbon giving a crude virus dispersion (I) (these are standard steps) then this is (d) filtered through a membrane filter (av. orifice 0.45 mu m) and centrifuged at 59,110 g. for 4 hrs., then (e) dispersed in M/75 phosphate buffer, pH 7.4, giving a purified dispersion (II). (I) contd. 2,600 mu g protein/ml. and (II) contd. 200 mu g/ml. while (II) contd. 80% of the virus in (I) at 1/10th the volume. The virus is then inactivated by a standard method and an antiseptic added.

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